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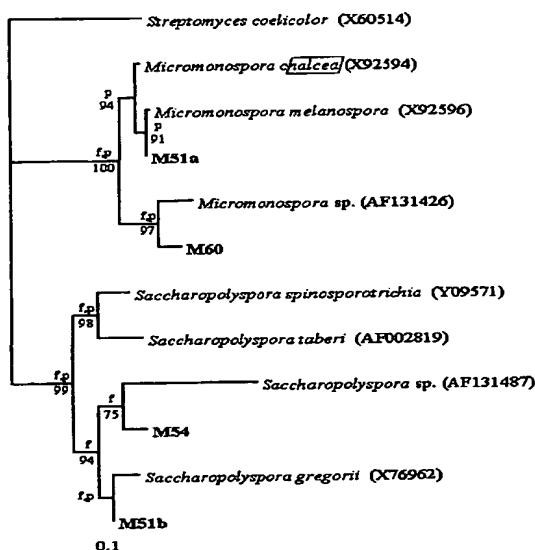
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Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MANZAMINE-PRODUCING ACTINOMYCETES



(57) Abstract: Disclosed are strains of actinomycetes that produce manzamines or derivatives thereof, methods of isolating said strains, and a 16S rRNA useful in identifying manzamine-producing bacteria.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/24238

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/497; C12N 1/00, 1/12, 1/20; C12P 1/00, 17/00,
US CL : 435/41, 117, 243, 252.1; 514/252.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 435/41, 117, 243, 252.1; 514/252.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IUBMB DATA BASE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PERAUD, O. et al. Microbial Community Analysis of a MARINE Sponge that Contains the ANTI-Malarial Compound Menzamine A. Abstract ASM 102nd General Meeting. 22 May 2002, Session 221/N, Abstract N-188, page 337.	1, 4-6, 10-12, 14-17, 21-22, 24-28
Y,P	YOUSAF, M. et al. 12, 34 Oxamanzamines, Novel Biocatalytic and Natural Products from Manzamine Producing Indo-Pacific Sponges. Tetrahedron. 2002, pages 7397-7402. abstract, page 7399, Column 2, Lines 11-37 below Figure 1; Figure 1, Tables Tables 2 and 3.	1-28

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

11 May 2004 (11.05.2004)

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09 JUL 2004

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

PCT/US03/24238

Continuation of B. FIELDS SEARCHED Item 3:

REGISTRY, BELLSTEIN, BIOSIS, BIOTEHNO, CA, CAPLUS, HCAPLUS, EMBASE, JICST-EPLUS, MEDLINE, TOXCENTRE, USPATFULL, USPT, PGPB, EPB, JPAB, DWPI.

Search Terms:

conducted structure search in registry, manzamine with registry number (i.e., 81782-73-2) and chemical formula for manzamine and different forms of manzamine (e.g., 34 oxamanzamine A), actinomycete or filamentous bacteria or bacteria, anti-malaria compound.